SANYO
STEREO MUSIC SYSTEM
GXT 4540KL/4540KLC
SERVICE MANUAL

A PRODUCT OF SANYO ELECTRIC CO., LTD.

SPECIFICATIONS

GENERAL

Transistors	14
IC's	5
Diodes	27
Power Source	110/120/220V AC, 50/60Hz
Power Consumption	40 W
Dimensions (Main unit)	22" (W) x 6-7/8" (D) x 9-5/8" (H) (568 x 175 x 244 mm)
Weight	Approx. 21.4 lbs. (9.7 kg)

TUNER

Frequency Ranges	UKW (FM)	87.5 – 108 MHz
	MW	520 – 1605 kHz
	LW	150 – 350 kHz
Intermediate Frequencies	UKW	10.7 MHz
	MW/LW	460 kHz
Sensitivities	UKW	4μV
	MW	300μV/m
	LW	800μV/m
Signal-to-Noise Ratio	UKW	40 dB
	MW	40 dB
	LW	40 dB
UKW Stereo Separation		30 dB

•AUDIO AMP SECTION

Output Power	8 watts/channel (5% T.H.D.)
Frequency Response	30 – 18000 Hz
Output Terminals	Speaker: 8 ohms Tape Playback Output Level: 1.5 mV, 1.2K ohms
Input Terminals	Level for tape recording: 300 mV, 220K ohms

SPEAKER SECTION

Speaker	6½" dia., 8 ohms, 20 W
Enclosure Dimensions	10-1/4" (W) x 6-3/4" (D) x 16-1/8" (H) (260 x 170 x 410 mm)
Weight	Approx. 6.6 lbs. (3 kg)

CASSETTE SECTION

Recording/Erasing System	AC Bias
Tape Speed	1-7/8 ips
Rewind/F.Forward Time	120 sec. (C-60 Cassette)
Wow & Flutter	0.3%

PHONO-PLAYER SECTION (Model GXT-4540KL only)

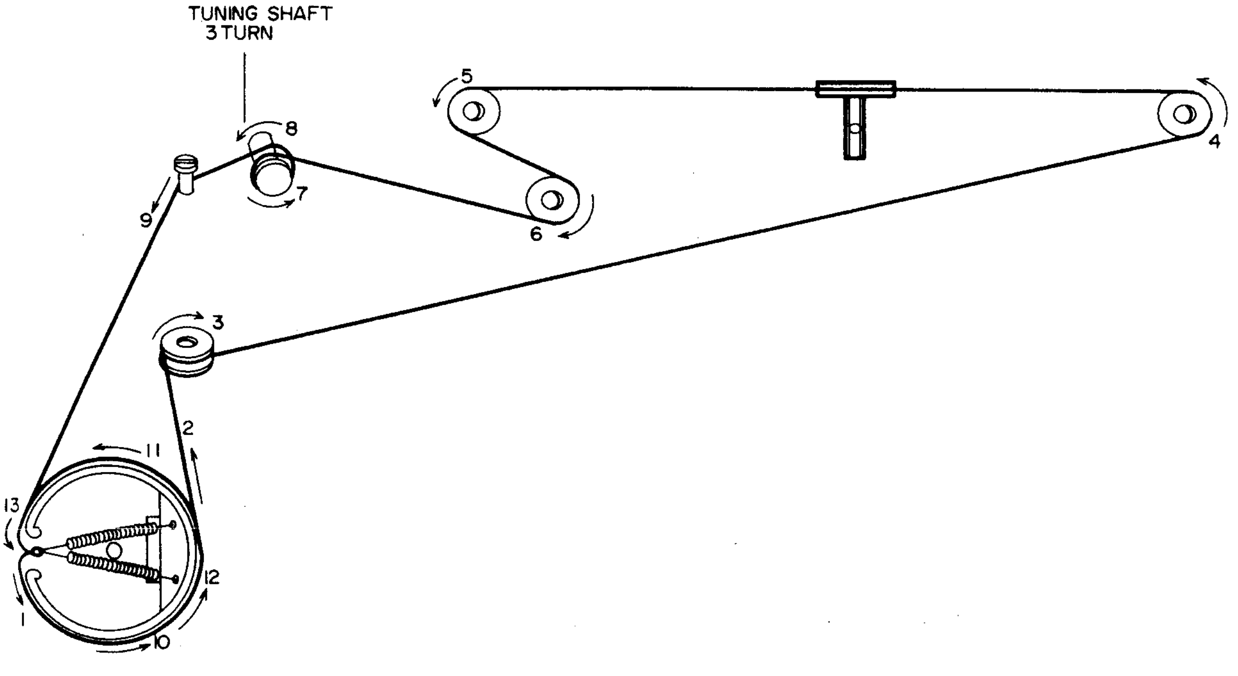
Manufacturer	Fujiya ARU-104S-4
Turntable Speeds	33-1/3 and 45 rpm
Pickup System	Ceramic Stereo Cartridge (Part #R-S07210) with Diamond Stylus (Part #R-S07152)
Turntable Size	10" dia.
Wow & Flutter	0.1%

AUTOMATIC RECORD CHANGER SECTION

(Model GXT 4540KLC only)

Manufacturer & Type	BSR C123R2
Turntable Speeds	33-1/3, 45 and 78 rpm
Pickup System	Ceramic Stereo Cartridge (Part #R-S07156) with Stylus (Part #R-S07150)
Stylus Force	5 grams
Turntable Diameter	10"
Wow & Flutter	0.25%

DIAL CORD STRING



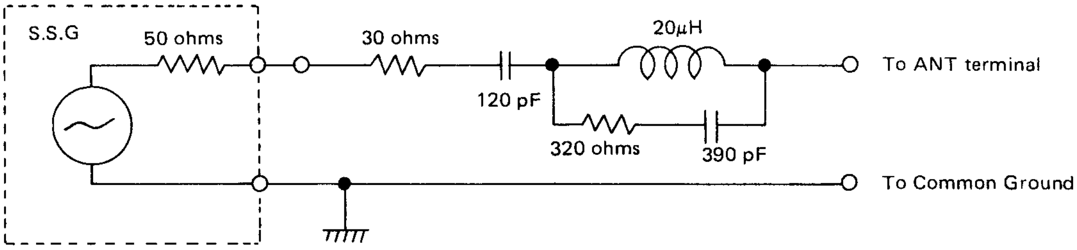
RADIO ALIGNMENTS

MW/LW IF AND RF ALIGNMENT

Step	Model	Signal Input	S14	Frequency of SSG	Dial Setting of Radio	Components to be Adjusted for Max. Output
1	MW	Thru loop antenna	INT.	460 KHz	Lower end	CF2
2	LW			145 KHz	Lower end	OSC coil L-6
3	LW			355 KHz	Upper end	OSC trimmer CT-5
4	LW			150 KHz	150 KHz	Ant. coil L-7
5	LW			350 KHz	350 KHz	Ant. trimmer CT-8
6	LW	Thru Dummy antenna (Fig. 1)	EXT.	150 KHz	150 KHz	Ant. coil L-10
7	LW			350 KHz	350 KHz	Ant. trimmer CT-8
8	MW	Thru loop antenna	INT.	515 KHz	Lower end	OSC coil L-8
9	MW			1650 KHz	Upper end	OSC trimmer CT-7
10	MW			600 KHz	600 KHz	Ant. coil L-5
11	MW			1400 KHz	1400 KHz	Ant. trimmer CT-6

Repeat STEP 4 and 5
Repeat STEP 6 and 7.
Repeat STEP 10 and 11.

DUMMY ANTENNA FOR MW/LW ALIGNMENT (Fig. 1)


S.S.G
50 ohms
30 ohms
120 pF
20μH
320 ohms
390 pF
To ANT terminal
To Common Ground

UKW(FM) IF ALIGNMENT

Step	Alignment Frequency	Test Equipment Connection	Adjustment
1	10.7 MHz	Connect sweep generator to TP-2 and oscilloscope to TP-1.	Tune for symmetrical "S" curve with T1, T2 and T3. (Fig. 2)

symmetrical "S" CURVE (Fig. 2)

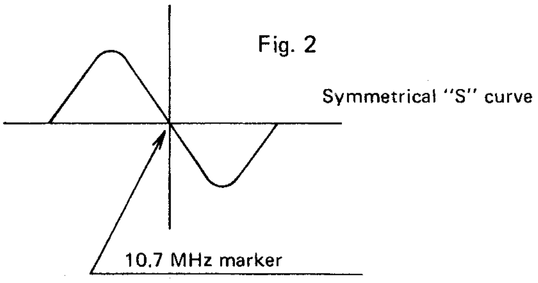


Fig. 2
Symmetrical "S" curve
10.7 MHz marker

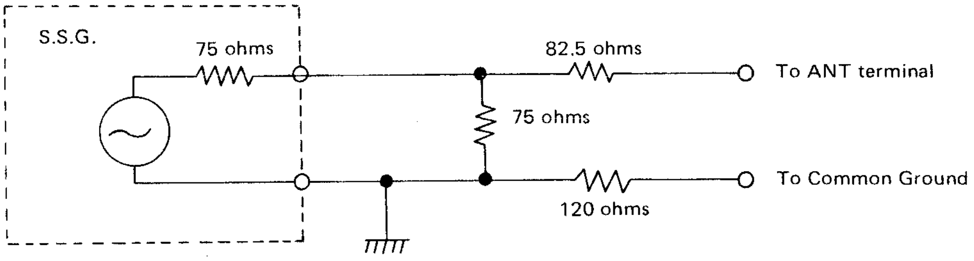
RADIO ALIGNMENTS

UKW(FM) RF ALIGNMENT

Step	Signal Input	Frequency of SSG	Dial setting of Radio	Components to be Adjusted for Max. Output
1	Thru dummy antenna. (Fig. 3)	8.75 MHz 30%	Lower end	OSC coil L-4
2		109 MHz 30%	Upper end	OSC trimmer CT-3
3		90 MHz 30%	90 MHz	ANT. RF coil L-1, L2
4		106 MHz 30%	106 MHz	ANT. RF coil CT-1, CT-2

Repeat STEP 3 and 4.

DUMMY ANTENNA FOR UKW ALIGNMENT (Fig. 3)



UKW(FM) STEREO SEPARATION

Step	Subject	Components to be adjusted	Adjustment
1	Frequency Adjustment (19.00 KHz)	SVR-151	Frequency counter to TP-151
2	Separation Adjustment	SVR-152	Max. separation.

RECORDING BIAS

Subject	Components to be adjusted	Test Point	Test Instrument
Bias Current Adjustment (4 mV) with NORMAL TAPE	Adjust SVR651 (L channel) and SVR652 (R channel) to get 4 mV reading across R603 and R703, respectively.	R603 R703	V.T.V.M.

TAPE OUTPUT LEVEL

Subject	Components to be adjusted	Test Point	Test Instrument
Output Level 6 V rms (–10 dB SPL)	SVR-601 SVR-701	Power Output Terminal (8 ohms Load)	V.T.V.M.

PARTS LIST

Key No.	Part No.	Description	Q'ty
		PACKAGE PARTS (FOR GXT-4540KL ONLY)	
	R-4771428	Instruction Book	1
	R-4072649	Individual Carton	1
	R-4170401	Styro-foam Cushion, Set Right	1
	R-4170402	Styro-foam Cushion, Set Left	1
	R-4170391	Styro-foam Cushion, Speaker Box	2
	R-357249	Polyethylene Bag, Set	1
	R-357251	Polyethylene Bag, Dust Cover	1
	R-357250	Polyethylene Bag, Speaker Box	1
		Polyethylene Bag, 320x320, Turntable	1
		Polyethylene Bag, 160x240, AC Cord	1
		Polyethylene Bag, 190x280, Instruction Book	1
	R-357252	Wrapping Paper, Dust Cover	1
	R-408549	Protector, Turntable	2
	R-4771649	Tag, AC Cord	1
		Polyethylene Bag, 160x240, Cassette Mic	1
	R-4072421	Protector, Set – Speaker Box	1
		PACKAGE PARTS (FOR GXT-4540KLC) ONLY	
	R-4771455	Instruction Book	1
	R-4072693	Individual Carton	1
	R-4170467	Styro-foam Cushion, Set Right	1
	R-4170468	Styro-foam Cushion, Set Left	1
	R-4170391	Styro-foam Cushion, Speaker Box	2
	R-357249	Polyethylene Bag, Set	1
	R-357257	Polyethylene Bag, Dust Cover	1
	R-357251	Polyethylene Bag, Speaker Box	1
		Polyethylene Bag, 100x240, AC Cord	1
		Polyethylene Bag, 190x280, Instruction Book	1
	R-357258	Wrapping Paper, Dust Cover	1
	R-4771650	Tag, AC Cord	1
		Polyethylene Bag, 160x240, Cassette Mic	1
	R-4072421	Protector, Set – Speaker Box	1
		Polyethylene Bag, 50x50	1
	R-4770194	Caution Label	1
		Ribbon, 12Wx60L	1
		ACCESSORIES	
	R-S07160	Microphone	2
	R-S07045	Cassette Tape, C-30	1
		SPEAKER BOX ASSEMBLY PARTS	
	R-S07165	Speaker, 6-1/2" dia. 8 ohms	2
	R-S37028-1	Cord Assembly, Speaker Connection	2
	R-A71339	Speaker Box Complete	2
	R-S870773	Speaker Box	(2)
	R-467150	Rear Cover	(2)
	R-3970644	Badge	(2)
		Nut, with Washer, M3, Speaker	8
		Screw, Round Hd. Wood, 3.1x16, Rear Cover	20
		Push Nut, SPN-2.6, Badge mtg.	2
		CABINET APPEARANCE PARTS	
1	R-A71336	Cabinet Assembly, GXT-4540KL	1
1	R-A71434	Cabinet Assembly, GXT-4540KLC	1
	R-47711119	Label, Beat Cut	1
	R-327298	Plastic Pipe Fixer, GXT-4540KLC	4
2	R-A71337	Bottom Cover Assembly, GXT-4540KL	1
2	R-A71435	Bottom Cover Assy, GXT-4540KLC	1
		Tap Screw, Pa Hd, 4x12	2
		Tap Screw, Pan Hd, 3x12	6
		Felt, 20x20x30, Circuit Board mtg.	3
		Felt, 20x20x40, Player	1
21	R-A71338	Panel Assembly, Cassette	1
		Screw, Oval Hd, 3x20	2
		Screw, Oval Hd, 3x24	2
4	R-A70844	Dust Cover Assy, GXT-4540KL	1
4	R-A71436	Dust Cover Assy, GXT-4540KLC	1
3	R-S870430	Hinge Assembly, GXT-4540KL	2
3	R-S870547	Hinge Assembly, GXT-4540KLC	2
		Screw, Pan Hd, 4x12	4

Key No.	Part No.	Description	Q'ty
		CABINET APPEARANCE PARTS	
		Nut, Hex Hd, M4	4
		Screw, Pan Hd, 3x8	8
	R-127839	Metal Bracket, Hinge	2
	R-1278641	Metal Bracket, L, Hinge GXT-4540KLC only	2
30	R-127787	Metal Bracket, Cassette Mechanism	1
		Tap Screw, Pan Hd, 3x10	2
31	R-127801	Metal Bracket, Cassette Mechanism	1
		Tap Screw, Pan Hd, 3x6	2
32	R-127825	Metal Bracket, Cassette Mechanism	2
		Tap Screw, Pan Hd, 3x10	2
	R-447855	Cushion, Dust Cover	2
5	R-A70803	Knob Assy. 2-4 CHNL/FUNCTION	7
6	R-A70804	Knob Assy, Power	1
7	R-3970584	Knob, Tuning	1
8	R-3970719	Knob, MIC/BALANCE/MODE	3
9	R-S870485	Knob Assy, SLIDE VOLUME	3
	R-3970964	Knob, Tape Select	2
		Spacer, 10φx16φx0.5t, Tuning/Mic/Reverse Knob	4
	R-127999	Metal Bracket, Tape Select	1
		Tap Screw, Pan Hd, 3x6	1
	R-4771438	Label, Antenna Select Switch	1
		CHASSIS MECHANICAL PARTS	
	R-S870687	Chassis Assembly	1
		Tap, Screw, Pan Hd., 3x10	2
	R-127837a	Metal Bracket, Headphone mtg.	1
		Tap. Screw, Pan Hd., 3x8	2
	R-127789	Metal Bracket, Right Side	1
		Tap. Screw, Pan Hd., 3x8	1
		Tap. Screw, Pan Hd., 3x10	1
		Screw, Pan Hd., 3x8	1
	R-127790	Metal Bracket, Left Side	1
		Tap. Screw, Pan Hd., 3x8	1
		Tap Screw, Pan Hd., 3x10	1
	R-2671069	Heat Sink	1
		Screw, Pan Hd., 3x10	2
		Nut, Hex Hd., M3	2
	R-325017	Pulley	4
	R-147054-1	Pulley Shaft, 4φx10mm	2
	R-S870679	Sub Chassis Assembly, Power Trans.	1
		Tap. Screw, Pan Hd., 3x10	8
	R-1270090	Metal Bracket, AC Cord	1
		Tap. Screw, Pan Hd., 3x8	2
	R-1270091	Metal Bracket, Antenna	1
	R-147054-2	Pulley Shaft, 4φx13.5mm	2
	R-277230	Pulley Shaft, 4φx12.5mm	1
	R-1270105	Back Plate, Dial	1
		Tap. Screw, Pan Hd., 3x8	2
	R-3970582	Drum	1
		Screw, Pan Hd., 2.6x6	1
		Washer, Flat, 2.9x7.5x0.5t	1
	R-157189	Coil Spring, Drum	2
		Dial Cord Strings, 0.5φx1160	1
	R-1270006	Chassis, Back	1
		Tap. Screw, Pan Hd., 3x8	1
		Tap. Screw, Oval Hd., 3x8	2
	R-1270007	Metal Bracket, AC Cord mtg.	1
		Tap. Screw, Oval Hd., 3x6	2
	R-1170773	Metal Bracket, Power Supply Select Switch	1
	R-1277998	Metal Bracket, Volume mtg.	1
		Screw, Pan Hd., 3x6	2
	R-S87863	Shaft Assembly, Tuning	1
		Washer, Flat, 9.5x16x1t	1
		Nut, Hex Hd., M9	1
	~~R-S870434~~	Pointer Assembly R-S871208	1
	R-127822	Metal Bracket, Pulley Shaft	1
		Tap. Screw, Pan Hd., 3x8	1
	R-437212	Back Plate, Slide Volume	3
	R-127873	Metal Bracket, Slide Volume	1
		Screw, Pan Hd., 3x6	2
	R-127865	Metal Bracket, Tuning Shaft mtg.	1
		Tap. Screw, Pan Hd., 3x8	2
		Tap. Screw, Pan Hd., 3x6	1
	R-117739c	Shield Case, OSC	1
		Screw, Pan Hd., 2.6x6	1
	R-415279	Mold Plane, Cassette OSC	1

PARTS LIST

CHASSIS MECHANICAL PARTS

Key No.	Part No.	Description	Q'ty
	R-2670883	Shield Plate, Cassette	1
		Tap. Screw, Pan Hd. with Washer "F" 2.6x6	3
	R-247144	Special Screw, Cassette Shield Plate	2
	R-4170640	Printed Circuit Board, Switch	1
	R-4170686	Printed Circuit Board, TAPE SELECT	1
	R-1170240	Lead Restratiner, FM Antenna	1
	R-367148	Insulator, FM Antenna	1
	R-447817	Rubber Bushing	1
	R-357099	Holder, AC Cord	1
	R-4771531	Protector	1
	R-3970965	Holder, Stereo Ind. Lamp	1
	R-387499-P	Lamp Cover, Power	1
	R-3970969	Holder, Power Lamp	1
	R-4771390	Label, Fuse	1
	R-1270129	Shield Plate, Main P.C.B.	2
	R-4771174	Label, Phono	2
	R-4771175	Label, Power	2
	R-4771391	Label, Cassette	2
		SCREW, NUT & WASHER	
		Tap. Screw, Pan Hd., 3x10 Bottom Cover – P.C.B.	5
		Screw, Pan Hd., 3x6 P.C.B. – Chassis	2
		Washer, Fiber, 3.3x10x1t P.C.B. mtg.	6

CHASSIS ELECTRICAL PARTS

Schematic Location	Part No.	Description	Q'ty
T10	R-W77271	Power Transformer, GXT-4540KL	1
T10	R-W77337	Power Transformer, GXT-4540KLC	1
		Screw, Pan Hd., 4x14	4
		Washer, Flat, 4.2x10x0.5	4
		Nut with Washer, M4	4
S1, 2	R-S47166	Push Switch, Power 2/4CHL	1
		Screw, Pan Hd., 3x6	2
S4-9	R-S47202	Push Switch, FUNCTION	1
		Screw, Pan Hd., 3x6	2
	R-S17169	Fuse, 4A	1
	R-S17031	Fuse, 0.63A	2
	R-S1755	Fuse holder	3
		Tap. Screw, Pan Hd., 2.6x10	3
J3	R-S2766	Headphone jack	1
		Screw, Pan Hd., 3x8	1
		Nut, Hex Hd., M3	1
	R-S17156	Terminal, Antenna	1
		Tap. Screw, Pan Hd., 3x10	2
J4-7	R-S27058	Jack, Speaker	4
		Tap, Screw, Pan Hd., 3x10	8
J8	R-S27163	Socket, DIN	1
		Tap. Screw, Pan Hd., 3x8	2
	R-S37039	AC Cord, L=1900	1
	R-S1733	Connector, Solderless	1
	R-S27147-1	Socket, Player Power, GXT-4540KLC	1
	R-S27190	Socket, Player Power, GXT-4540KL	1
	R-S377033-3	Housing, 3P, Phono-input, GXT-4540KL	1
	R-257099	Terminal, Housing, GXT-4540KL	1
	R-257098	Terminal, Housing, GXT-4540KL	1
	R-S37029-1	Housing, 3P, Phono-input, GXT-4540KLC	1
	R-S27110	Terminal, Housing	12
S14	R-S47222-1	Rotary Switch, Power Select	1
S3, 1-2	R-S47221	Rotary Switch, MO/ST	1
	R-S17157a	Terminal	1
	R-127500	Lug	1
	R-S1763-2	Pilot Lamp, PWR	1
	R-377033-4	Housing, Cassette	1
	R-377033-5	Housing, Cassette	1
	R-257098	Terminal, Cassette	8
	R-257099	Terminal, Cassette	1
		Eyelet, 1.6x3	9

CHASSIS ELECTRICAL PARTS

Schematic Location	Part No.	Description	Q'ty
		Eyelet, 2x3	3
	R-235128	Eyelet Lug	3
	R-S47220	Push Switch, NOR-Cr02	1
	R-S3741	3P Lug	1
		Tap. Screw, Pan Hd., 3x8	1
	R-S27141	Jack, MIC	2
VR901, 951	R-R1167062	Variable Resistor, 10K-B, Mic	1
VR203, 303	R-R1167050	Variable Resistor, 50K-M, N, Balance	1
VR202, 302	R-R160710	Variable Resistor, 50K-A, Treble	1
		Screw, Pan Hd., 3x6	2
VR201, 301	R-R160710	Variable Resistor, 50K-A, Bass	1
		Screw, Pan Hd., 3x6	2
	R-160711	Variable Resistor, 50K-A, Volume	1
		Screw, Pan Hd., 3x6	1
L5, 7	R-S870717	Antenna Coil Assembly	1
		Tap. Screw, Pan Hd. with Washer "F" 3x8	
		Nut, Hex. Hd., M3	1
		Washer, Fiber, 3.3x10x1t	1
S13	R-S4303	Slide Switch, Beat Cut	1
		Screw, Pan Hd., 2x6	2
		Screw, Pan Hd., 3x12, IC STK015	4
		SEMICONDUCTORS	
D812		Diode, BZ-162	1
D810, 811		LED, SLP-24, Pointer MPX	2
IC201,301		Integrated Circuit, STK015	2
		RESISTORS	
R617, 717		Carbon, 270 ohm, ±5%, 1/4W	2
R618, 718		Carbon, 820 ohm, ±5%, 1/4W	2
R620, 720		Carbon, 68 K ohm, ±5%, 1/4W	2
R621		Carbon, 120 ohm, ±5%, 1/4W	1
		CAPACITORS	
C617, 717		Mylar, 0.068 mfd, ±10%, 50V	2
C810, 811		Electrolytic, 1000 mfd, 40V	2

MAIN AMP CIRCUIT BOARD ASSEMBLY

Schematic Location	Part No.	Description	Q'ty
	R-A71340	Circuit Baord Assembly, Main	1
L1	R-W2764	Antenna Coil	1
L10	R-W27037	Antenna Coil	1
CV1,2,3,4,5 CT1, 2	R-C1718	Variable Capacitor	1
CT6	R-C0704	Trimmer	1
CT4,5,7,8	R-C0046	Trimmer	2
CT3	R-C0716	Trimmer	1
CF1	R-S17146	Ceramic Filter	1
CF2	R-W5CF701	Ceramic Filter	1
T1	R-W5T766	IF Transformer	1
T2	R-W5T768	IF Transformer	1
T3	R-W5T769	IF Transformer	1
T4	R-W5T774	IF Transformer	1
L2	R-W9707	VHF Coil	1
L3	R-W9018	VHF Coil	1
L4	R-W9704	VHF Coil	1
L6	R-W8725	OSC Coil, LW	1
L8	R-W8775	OSC Coil, MW	1
SVR151	R-R11012	Preset Resistor, 5K ohm	1
SVR152	R-R110714	Preset Resistor, 1K ohm	1
L151,152	R-W1751	Choke Coil, 40mH	2
		SEMICONDUCTORS	
IC1		Integrated Circuit, LA1111P	1
FET1		F.E.T., 2SK41	1
TR2		Transistor, 2SC668	1
TR3,4,5,6		Transistor, 2SC930	4
D1,2,9,10		Diode, 1S1588	4
D5,6		Diode, 1S188FM	2
D7,8		Diode, 1S188 AM	2
D4		Diode, 1S553	1
IC151		Integrated Circuit, LA3350	1
TR901,951		Transistor, 2SC693	2
D813,814		Diode, 1S188 AM	2
TR201, 202, 301, 302		Transistor, 2SC537	4

PARTS LIST

Schematic Location	Part No.	Description	Q'ty
MAIN AMP CIRCUIT BOARD ASSEMBLY			
D801, 802, 803, 804, 805, 806, 807, 808, 809		Diode, 10D-1 or SM-1	9
		RESISTORS	
R4, 42, 156		Carbon, 8.2 K ohm, ±5%, 1/4W	3
R2		Carbon, 1M ohm, ±5%, 1/4W	1
R3, 10, 22, 28, 40		Carbon, 220 ohm, ±5%, 1/4W	5
R5, 39, 254, 354, 907		Carbon, 2.2 K ohm, ±5%, 1/4W	5
R6		Carbon, 1.8 K ohm, ±5%, 1/4W	1
R13, 34		Carbon, 100 K ohm, ±5%, 1/4W	2
R15, 16, 29, 30, 45, 46, 214, 314, 801, 905, 955		Carbon, 1 K ohm, ±5%, 1/4W	11
R8		Carbon, 180 ohm, ±5%, 1/4W	1
R9, 12, 24, 41, 251, 351, 819, 920		Carbon, 10 K ohm, ±5%, 1/4W	8
R11, 157, 212, 312		Carbon, 3.3 K ohm, ±5%, 1/4W	4
R14		Carbon, 330 ohm, ±5%, 1/4W	1
R17, 158, 159		Carbon, 3.9 K ohm, ±5%, 1/4W	3
R18, 32, 33, 201, 219, 319, 906, 956		Carbon, 5.6 K ohm, ±5%, 1/4W	8
R19, 828, 829		Carbon, 68 K ohm, ±5%, 1/4W	3
R20		Carbon, 560 ohm, ±5%, 1/4W	1
R23, 253, 353, 833		Carbon, 680 ohm, ±5%, 1/4W	4
R25		Carbon, 33 K ohm, ±5%, 1/4W	1
R26, 31, 47		Carbon, 100 ohm, ±5%, 1/4W	3
R27, 902, 952		Carbon, 2.7 K ohm, ±5%, 1/4W	3
R35, 37		Carbon, 56 K ohm, ±5%, 1/4W	2
R36		Carbon, 4.7 K ohm, ±5%, 1/4W	1
R38, 217, 317, 817, 818		Carbon, 6.8 K ohm, ±5%, 1/4W	5
R252, 352		Carbon, 1.2 K ohm, ±5%, 1/4W	2
R160, 161, 827		Carbon, 1.5 K ohm, ±5%, 1/4W	3
R202		Carbon, 820 ohm, ±5%, 1/4W	1
R218, 318		Carbon, 4.7 ohm , ±5%, 1/4W	2
R211, 311		Carbon, 270 K ohm, ±5%, 1/4W	2
R215, 315		Carbon, 390 ohm, ±5%, 1/4W	2
R807, 808		Carbon, 390 K ohm, ±5%, 1/4W	2
R220, 320		Carbon, 47 ohm, ±5%, 1/4W	2
R809, 810		Carbon, 220 K ohm, ±5%, 1/4W	2
R811, 812		Carbon, 82 K ohm, ±5%, 1/4W	2
R815, 816		Carbon, 1.2 M ohm, ±5%, 1/4W	2
R821, 822, 213, 313		Carbon, 120 K ohm, ±5%, 1/4W	4
R802		Carbon, 3.9 K ohm, ±5%, 1/4W	1
R823, 824		Carbon, 18 K ohm, ±5%, 1/4W	2
R825, 826		Carbon, 47 K ohm, ±5%, 1/4W	2
R903, 953		Carbon, 15 K ohm, ±5%, 1/4W	2
R904, 954		Carbon, 15 ohm, ±5%, 1/4W	2
R1, 49		Carbon, 470 ohm, ±5%, 1/4W	2
R43		Carbon, 100 ohm, ±5%, 1/4W	1
R44		Carbon, 56 ohm, ±5%, 1/4W	1
R224, 324		Carbon, 470 K ohm, ±5%, 1/4W	2
R834		Carbon, 27 K ohm, ±5%, 1/4W	1
R908, 958		Carbon, 6.8 K ohm, ±5%, 1/4W	2

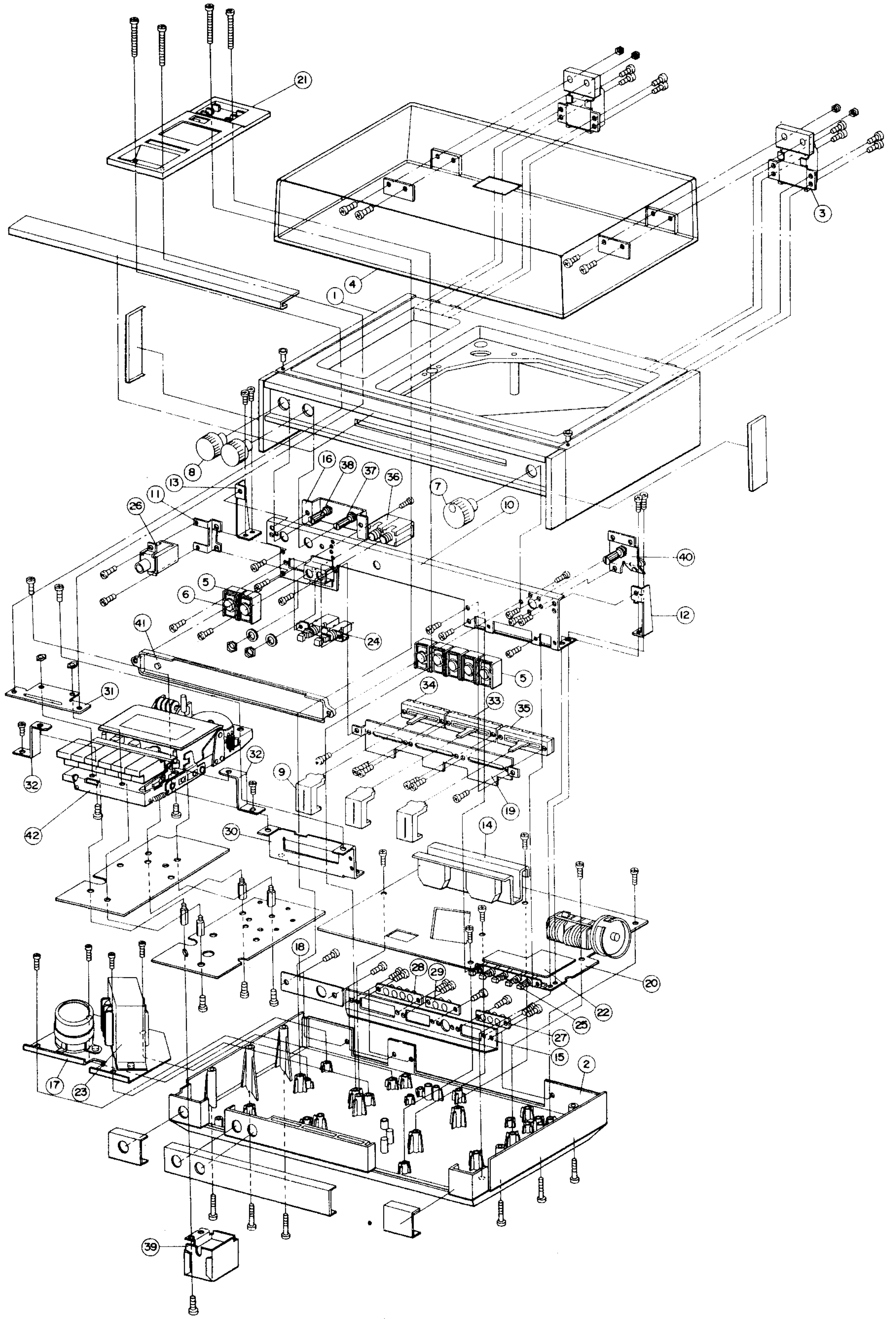
Schematic Location	Part No.	Description	Q'ty
MAIN AMP CIRCUIT BOARD ASSEMBLY			
R48		Carbon, 1.2 K ohm, ±5%, 1/4W	1
R50		Carbon, 100 ohm, ±5%, 1/4W	1
R216, 316		Carbon, 180 K ohm, ±5%, 1/4W	2
R221, 321		Carbon, 4.7 K ohm, ±5%, 1/4W	2
R803		Solid, 6.8 ohm, ±10%, 1/2W	1
R804, 805		Solid, 100 ohm, ±10%, 1/2W	2
R806		Solid, 150 ohm, ±10%, 1/2W	1
R803, 831		Metal Oxide Film, 100 ohm, ±10%, 1W	2
		CAPACITORS	
C2		Ceramic, 0.001 mfd, ±10%, 50V, YW	1
C1, 2, 14, 15, 212, 312		Ceramic, 10 pF, ±10%, 50V, SL	6
C5		Ceramic, 14 pF, ±10%, 50V, SL	1
C8, 13		Ceramic, 20 pF, ±10%, 50V, SL	2
C9		Ceramic, 500 pF, ±10%, 50V, YW	1
C53, 904, 954		Ceramic, 30 pF, ±10%, 50V, SL	3
C32		Ceramic, 100 pF, ±10%, 50V, SL	1
C817, 818		Ceramic, 35 pF, ±10%, 50V, SL	2
C45		Ceramic, 12 pF, ±10%, 50V, SL	1
C44		Ceramic, 90 pF, ±10%, 50V, SL	1
C6, 16, 54		Ceramic, 5 pF, ±10%, 50V, SL	3
C38, 39		Ceramic, 200 pF, ±10%, 50V, YW	2
C7		Ceramic, 1 pF, ±0.25pF, 50V, SL	1
C4, 11, 17, 20, 33, 34, 49		Ceramic, 0.04 mfd, +80 –20%, 50V, YM	7
C10, 23, 29, 30, 31, 36		Ceramic, 0.02 mfd, +80 –20%, 50V, YM	6
C51, 55, 57, 58, 59, 60, 62		Ceramic, 0.04 mfd, +80 –20%, 50V, YM	7
C801, 802 803, 804, 805, 806		Ceramic, 0.04 mfd, +80 –20%, 50V, YM	6
C807, 808, 809, 832		Ceramic, 0.04 mfd, +80 –20%, 50V, YM	4
C43, 160, 161, 261, 351, 822, 823		Mylar, 0.0047 mfd, +20%, 50V	7
C19		Mylar, 0.02 mfd, ±20%, 50V	1
C22, 25, 26, 41, 170, 171		Mylar, 0.01 mfd, ±20%, 50V	6
C28		Mylar, 0.068 mfd, ±20%, 50V	1
C42		Mylar, 0.0022 mfd, ±20%, 50V	1
C216, 316		Mylar, 0.047 mfd, ±20%, 50V	2
C166, 167, 224, 324		Mylar, 0.0039 mfd, ±20%, 50V	4
C164, 165		Mylar, 0.002 mfd, ±20%, 50V	2
C223, 323		Mylar, 470 pF, ±20%, 50V	2
C252, 352, 52, 254, 354		Mylar, 0.039 mfd, ±20%, 50V	5
C253, 353		Mylar, 0.22 mfd, ±20%, 50V	2
C255, 355		Mylar, 0.0015 mfd, ±20%, 50V	2
C256, 356		Mylar, 0.1 mfd, ±20%, 50V	2
C156		Mylar, 0.047 mfd, ±10%, 50V	1
C821		Mylar, 0.027 mfd, ±20%, 50V	1
C18		Styrol, 200 pF, ±10%, 50V	1
C155		Styrol, 1400 pF, ±5%, 50V	1
C47		Styrol, 200 pF, ±5%, 50V	1
C46, 819, 820		Styrol, 375 pF, ±5%, 50V	3
C48		Electrolytic, 16v/47mfd	1
C36		Electrolytic, 6.3V/4.7mfd	1
C50		Electrolytic, 10V/1mfd	1
C27		Electrolytic, 10V/10mfd	1
C35		Electrolytic, 16V/220mfd	1
C169		Electrolytic, 16V/470mfd	1
C154		Electrolytic, 25V/1mfd	1
C162, 163		Electrolytic, 25V/1mfd Alsicon	2
C157, 159		Electrolytic, 16V/0.47mfd Alsicon	2
C158		Electrolytic, 16V/0.22mfd Alsicon	1
C172		Electrolytic, 25V/470mfd	1
C903,953		Electrolytic, 6.3V/47mfd	2

PARTS LIST

Schematic Location	Part No.	Description	Q'ty
MAIN AMP CIRCUIT BOARD ASSEMBLY			
C905		Electrolytic, 25V/330mfd	1
C901, 951		Electrolytic, 25V/1mfd Alsicon	2
C902, 952		Electrolytic, 25V/0.22mfd Alsicon	2
C201, 220, 320		Electrolytic, 25V/220mfd	3
C213, 313		Electrolytic, 6.3V/100mfd	2
C217, 317		Electrolytic, 25V/470mfd	2
C218, 318, 219, 319		Electrolytic, 25V/47mfd	4
C221, 321		Electrolytic, 10V/47mfd	2
C222, 322		Electrolytic, 25V/10mfd	2
C202		Electrolytic, 25V/330mfd	1
C214, 314, 215, 315		Electrolytic, 25V/1mfd	4
C211, 311		Electrolytic, 25V/1mfd Alsicon	2
C812		Electrolytic, 25V/470mfd	1
C814, 815		Electrolytic, 25V/330mfd	2
C813		Electrolytic, 16V/330mfd	1
C831		Electrolytic, 40V/100mfd	1
CASSETTE AMP CIRCUIT BOARD ASSEMBLY			
	R-A70835	Circuit Board Assembly, Cassette	1
	R-4170347	Printed Circuit Board	1/2
S10-1-11	R-S47172	Slide Switch	1
L601, 701	R-W1767	Bias Trap Coil	2
SVR601,701	R-R110705	Preset Resistor, 50K	2
L602, 702, 603, 703	R-W6724	Choke Coil, 10mH	4
		SEMICONDUCTORS	
IC601		Integrated Circuit, M5130P	1
D601, 701 602, 702		Diode, 1S188 AM	4
		RESISTORS	
R601, 701		Carbon, 1.5 K ohm, ±5%, 1/4W	2
R603, 703		Carbon, 10 ohm, ±5%, 1/4W	2
R604, 704		Carbon, 560 ohm, ±5%, 1/4W	2
R605, 705		Carbon, 12 K ohm, ±5%, 1/4W	2
R606, 706		Carbon, 15 K ohm, ±5%, 1/4W	2
R608, 708		Carbon, 1 M ohm, ±5%, 1/4W	2
R609, 709		Carbon, 56 K ohm, ±5%, 1/4W	2
R610, 710		Carbon, 100 K ohm, ±5%, 1/4W	2
R611, 711		Carbon, 3.3 K ohm, ±5%, 1/4W	2
R613, 713		Carbon, 680 ohm, ±5%, 1/4W	2
R615, 623		Carbon, 330 ohm, ±5%, 1/4W	2
R614, 714		Carbon, 39 K ohm, ±5%, 1/4W	2
R619, 719		Carbon, 100 ohm, ±5%, 1/4W	2
R602, 702		Carbon, 4.7 K ohm, ±5%, 1/8W	2
R612, 712		Carbon, 2.2 K ohm, ±5%, 1/8W	2
R616		Solid, 560 ohm, ±10%, 1/2W	1
R622		Solid, 10 ohm, ±10%, 1/2W	1
		CAPACITORS	
C601, 701		Mylar, 0.0033 mfd, ±10%, 50V	2
C604, 704, 607, 707		Mylar, 0.0022 mfd, ±10%, 50V	4
C607, 705		Mylar, 0.015 mfd, ±10%, 50V	2
C611, 711		Mylar, 0.01 mfd, ±20%, 50V	2
C619		Ceramic, 0.04 mfd, +80 –20%, 50V, YM	1
C620, 720		Ceramic, 200 pF, ±10%, 50V, YW	2
C603, 703		Styrol, 3000 pF, ±10%, 50V	2
C606, 706		Styrol, 375 pF, ±10%, 50V	2
C614, 714		Styrol, 700 pF, ±10%, 50V	2
C612, 712		Electrolytic 10V/10mfd	2
C621		Electrolytic 25V/220mfd	1
C616		Electrolytic 6.3V/47mfd	1
C608, 708		Electrolytic 6.3V/33mfd	2
C609, 709, 610, 710, 613, 713		Electrolytic 16V/10mfd	6
R602, 702		Electrolytic 25V/3.3mfd	2
C615, 618		Electrolytic, 16V/220mfd	2

Schematic Location	Part No.	Description	Q'ty
BIAS OSC CIRCUIT BOARD ASSEMBLY			
	R-A7685	Circuit Board Assembly, Cassette OSC	1
	R-417322	Printed Circuit Board	1
SVR651,652	R-R11011	Present Resistor, 100K	2
L651	R-W8737	OSC Coil	1
		SEMICONDUCTORS	
TR651, 652		Transistor, 2SC1317	2
		RESISTORS	
R651		Carbon, 3.9 K ohm, ±5%, 1/4W	1
R652		Carbon, 33 K ohm, ±5%, 1/4W	1
R653		Carbon, 5.6 ohm, ±5%, 1/4W	1
R654		Carbon, 82 ohm, ±5%, 1/4W	1
		CAPACITORS	
C652		Mylar, 0.022 mfd, ±20%, 50V	1
C653		Mylar, 0.01 mfd, ±20%, 50V	1
C654		Mylar, 0.0068 mfd, ±20%, 50V	1
C655, 656, 657		Mylar, 470 pF ±20%, 50V	3
C651		Electrolytic, 16V/100mfd	1

CABINET EXPLODED VIEW



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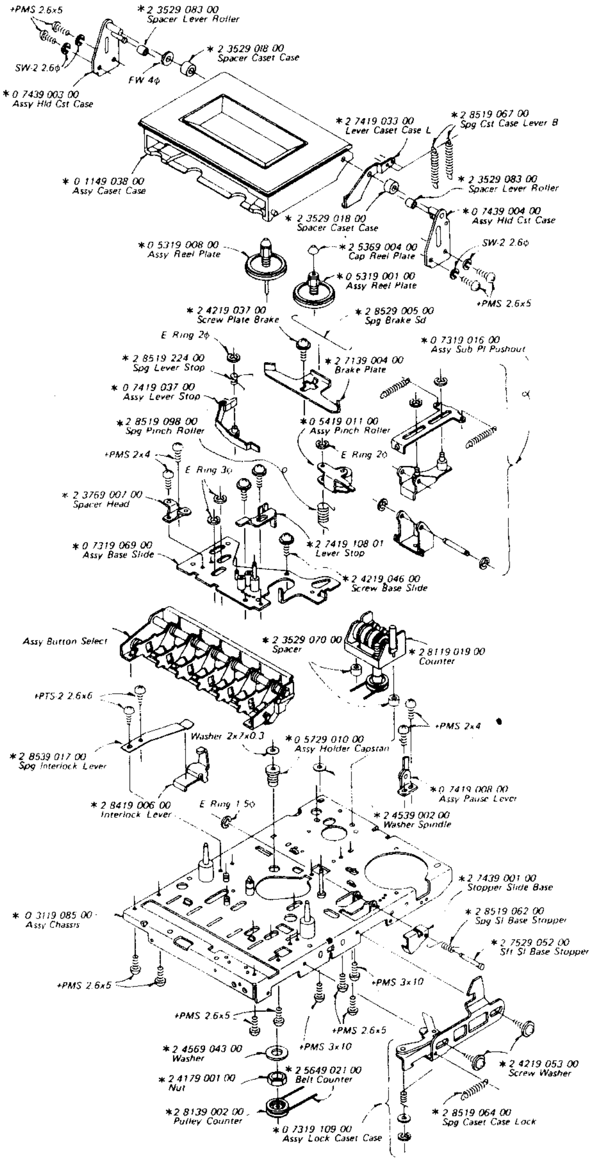
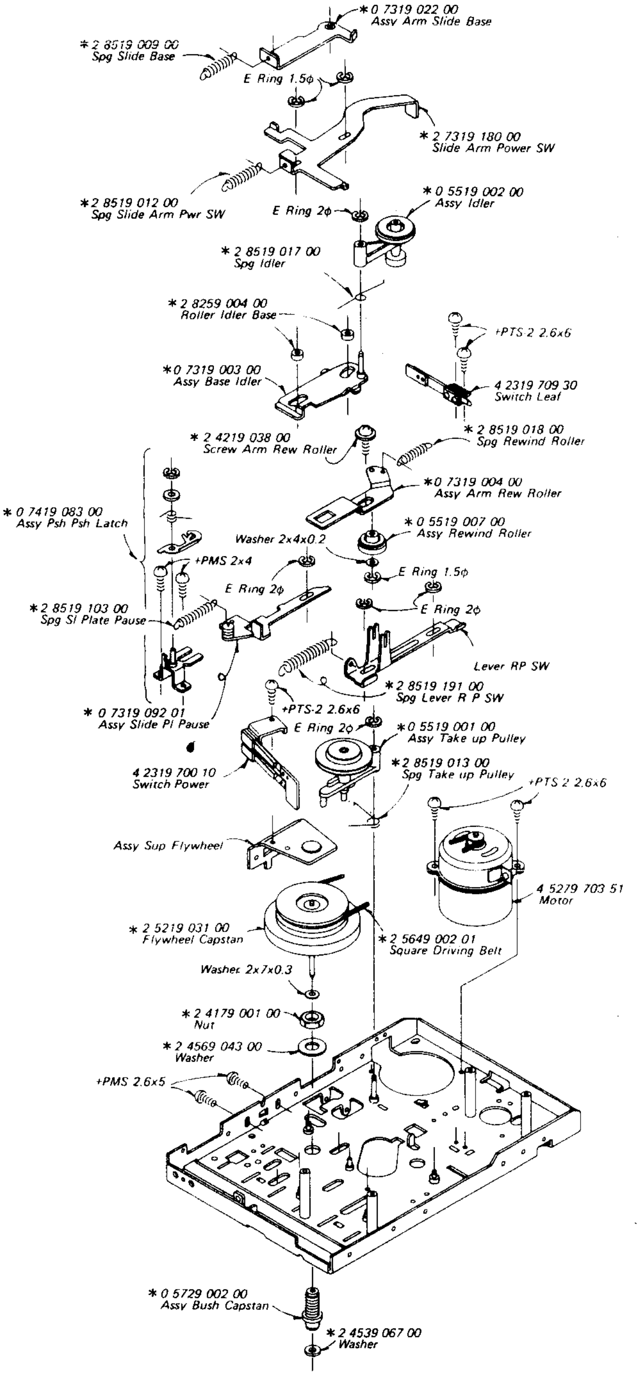
PARTS LIST

Key No.	Part No.	Description	Q'ty
		CASSETTE MECHANISM	
1	141 0 3119 08500	Chassis Assy	1
2	141 0 7319 06900	Base Slide Assy	1
3	141 0 7319 01600	Sub-plate Pushout Assy	1
4	141 0 5729 00200	Bush Capstan Assy	1
5	141 2 3769 00700	Spacer Head	1
6	141 2 4179 00100	Nut, (Bush Capstan)	1
7	141 2 4179 00100	Nut, (Supply Reel)	1
8	141 2 8519 10300	Spring, Slide Plate Pause	1
9	141 0 7319 02200	Slide Base Arm Assy	1
10	141 0 5419 01100	Pinch Roller Assy	1
11	141 2 8519 09800	Spring, Pinch Roller	1
12	141 2 8519 00900	Spring, Slide Base	1
13	141 0 3519 07900	Support Flywheel Assy	1
14	141 0 5319 00100	Reel Plate Assy	1
15	141 0 5319 00800	Reel Plate Assy	1
16	141 0 5729 01000	Holder Capstan Assy	1
17	141 2 8139 00200	Pulley Counter	1
18	141 0 7419 03700	Lever Stop Assy	1
19	141 2 7419 10801	Lever Stop	1
20	141 2 8519 01800	Spring, Rewind Roller	1
21	141 2 4219 04600	Screw, Base Slide	2
22	141 2 5649 00201	Square Driving Belt	1
23	141 2 8519 22400	Spring, Lever Stop	1
24	141 2 5369 00400	Cap, Reel Plate	1
25	141 2 4539 00200	Washer, Spindle	1
26	110 3 9200 70034	Washer, M2.0 x 7 x 0.3, (Supply Reel)	1
27	141 2 7139 00400	Breake Plate	1
28	141 2 7319 18000	Slide Arm, Power Switch	1
29	141 2 8529 00500	Spring, Brake	1
30	141 2 8519 01200	Spring, Slide Arm, Power SW	1
31	141 2 4219 03700	Screw, Plate Brake, (Brake Plate)	1
32	141 2 4219 03700	Screw, Plate Brake, (Lever Stop)	1
33	141 2 4219 03800	Screw, Arm Rewind Roller	1
34	141 0 7319 10900	Lock, Assy Cassette Case	1
35	141 0 5519 00100	Take Up Pulley Assy	1
36	141 2 8519 01300	Spring, Take Up Pulley	1
37	141 0 5519 00200	Idler Assy	1
38	141 0 7319 00300	Base Idler Assy	1
39	141 2 8519 01700	Spring, Idler	1
40	141 2 8259 00400	Roller, Idler Base	2
41	141 0 7319 00400	Arm, Assy Rewind Roller	1
42	141 0 5519 00700	Rewind Roller Assy	1
43	141 2 8429 00700	Lever, R/P Switch	1
44	141 2 8519 19100	Spring Lever, R/P SW	1
45	141 2 7439 00100	Stopper, Slide Base	1
46	141 2 7529 05200	Shaft, Slide Base Stopper	1
47	141 2 8519 06200	Spring, Slide Base Stopper	1
48	141 2 8419 00600	Interlock Lever	1
49	141 2 8539 01700	Spring, Interlock Lever	1
50	141 2 8519 06400	Spring, Cassette Case Lock	1
51	141 2 3529 08300	Spacer	2
52	141 2 4219 05300	Screw, Washer	2
53	141 0 7439 00300	Holder, R Assy Cassette Case	1
54	141 0 7439 00400	Holder, L Assy Cassette Case	1
55	141 2 7419 03300	Lever, Cassette Case L	1
56	141 2 3529 01800	Spacer, Cassette Case	2
57	141 2 8519 06700	Spring, Cassette Case Lever B	2
59	141 0 1149 03800	Cassette Case Assy	1
60	141 2 4539 06700	Washer, (Capstan)	1
61	141 0 7319 09201	Slide Plate Pause Assy	1
62	141 0 7419 08300	PSH PSH Latch Assy	1
63	141 0 7419 00800	Pause Lever Assy	1
64	4 2319 70010	Switch, Power	1
65	141 0 7419 11400	Lever Switch Assy	1
66	4 5279 70351	Motor	1
67	110 3 1204 00011	FW M4, (SP Cassette Case)	1
68	141 2 5219 03100	Flywheel Capstan	1
69	141 2 4569 04300	Washer 8 x 14 x 0.5, (Bush Capstan)	1
70	141 2 4569 04300	Washer 8 x 14 x 0.5, (Holder Capstan)	1
71	110 3 9200 40025	Washer (Myler) 2 x 4 x 0,5, (Rewind Roller Assy)	1
72	110 3 9200 70034	Washer (Nylon) 2 x 7 x 0.3, (Flywheel)	1
73	112 3 1301 50040	E Washer, 1.5φ, (Rewind Roller Assy)	1
74	112 3 1301 50040	E Washer, 1.5φ, (Shaft SL Base Stop)	1
75	112 3 1301 50040	E Washer, 1.5φ, (SL Arm Power SW)	2
76	112 3 1302 00040	E Washer, 2φ, (Take Up Pulley)	1
77	112 3 1302 00040	E Washer, 2φ, (Lever RP Switch)	2
78	112 3 1302 00040	E Washer, 2φ, (Idler Assy)	1
79	112 3 1302 00040	E Washer, 2φ, (Pinch Roller)	1
80	112 3 1302 00040	E Washer, 2φ, (Lever Stop)	1
83	112 3 1303 00040	E Washer, 3φ, (Slide Base)	2
84	110 3 2102 60011	SW-2 M2.6, (Hold Cassette Case L)	2
85	110 3 2102 60011	SW-2 M2.6, (Hold Cassette Case R)	2
87	101 3 1302 60511	PMS (+) M2.6 x 5, (Sub PL Pushout)	2
88	101 3 1302 60511	PMS (+) M2.6 x 5, (Support Flywheel)	2
89	101 3 1302 60511	PMS (+) M2.6 x 5, (Hold Cassette Case L)	2
90	101 3 1302 60511	PMS (+) M2.6 x 5, (Hold Cassette Case R)	2
91	103 3 1302 60611	PTS-2 (+) M2.6 x 6, (Motor)	2
92	103 3 1302 60611	PTS-2 (+) M2.6 x 6, (Interlock Lever)	2
93	103 3 1302 60611	PTS-2 (+) M2.6 x 6, (Switch Leaf)	2
94	103 3 1302 60611	PTS-2 (+) M2.6 x 6, (Switch Power)	2
95	141 2 8119 01900	Counter Tape	1
96	141 2 3529 07000	Spacer	2
97	141 0 1619 14000	Button Select Assy	1
98	141 2 5649 02100	Belt, Counter	1
99	101 3 1303 01011	PMS (+) M3 x 10, (Counter)	2
100	101 3 1302 60511	PMS (+) M2.6 x 5, (Select But Assy)	4
	110 3 3203 00082	TW-B, M3.0, (Counter)	2
	101 3 2502 01211	Countersunk Machine Screw (–) M2.0 x 12, (SPG Adjust Head)	1
	110 3 1102 00011	Spring Washer M2.0 (SPG Adjust Head)	1
	141 2 8519 04500	Spring, Adjust Head	1
	101 3 1302 00411	PMS (+) M2.0 x 4, (BRKT Push Push)	2
	101 3 1302 00411	PMS (+) M2.0 x 4, (BRKT Pause Lever)	2

*Note: PMS = Machine Screw, Pan Head
PTS = Tapping Screw, Pan Head
SW-2 = Spring Washer,

EXPLODED VIEW (CHASSIS)


+PMS 2.6x5
*2 3529 083 00
Spacer Lever Roller
*2 3529 018 00
Spacer Caset Case
SW-2 2.6ϕ
FW 4ϕ
*0 7439 003 00
Assy Hld Cst Case
*2 7419 033 00
Lever Caset Case L
*2 8519 067 00
Spg Cst Case Lever B
*0 1149 038 00
Assy Caset Case
*2 3529 083 00
Spacer Lever Roller
*2 3529 018 00
Spacer Caset Case
*0 7439 004 00
Assy Hld Cst Case
*0 5319 008 00
Assy Reel Plate
*2 5369 004 00
Cap Reel Plate
SW-2 2.6ϕ
*0 5319 001 00
Assy Reel Plate
+PMS 2.6x5
*2 4219 037 00
Screw Plate Brake
*2 8529 005 00
Spg Brake Sd
E Ring 2ϕ
*0 7319 016 00
Assy Sub Pl Pushout
*2 8519 224 00
Spg Lever Stop
*2 7139 004 00
Brake Plate
*0 7419 037 00
Assy Lever Stop
*2 8519 098 00
Spg Pinch Roller
*0 5419 011 00
Assy Pinch Roller
+PMS 2x4
E Ring 2ϕ
E Ring 3ϕ
*2 3769 007 00
Spacer Head
*0 7319 069 00
Assy Base Slide
*2 7419 108 01
Lever Stop
*2 4219 046 00
Screw Base Slide
Assy Button Select
*2 3529 070 00
Spacer
*2 8119 019 00
Counter
+PTS-2 2.6x6
+PMS 2x4
Washer 2x7x0.3
*0 5729 010 00
Assy Holder Capstan
*2 8539 017 00
Spg Interlock Lever
*0 7419 008 00
Assy Pause Lever
*2 8419 006 00
Interlock Lever
E Ring 1.5ϕ
*2 4539 002 00
Washer Spindle
*2 7439 001 00
Stopper Slide Base
*0 3119 085 00
Assy Chassis
*2 8519 062 00
Spg Sl Base Stopper
*2 7529 052 00
Sft Sl Base Stopper
+PMS 2.6x5
+PMS 3x10
+PMS 2.6x5
+PMS 2.6x5
+PMS 3x10
*2 4569 043 00
Washer
*2 5649 021 00
Belt Counter
*2 4179 001 00
Nut
*2 4219 053 00
Screw Washer
*2 8139 002 00
Pulley Counter
*0 7319 109 00
Assy Lock Caset Case
*2 8519 064 00
Spg Caset Case Lock

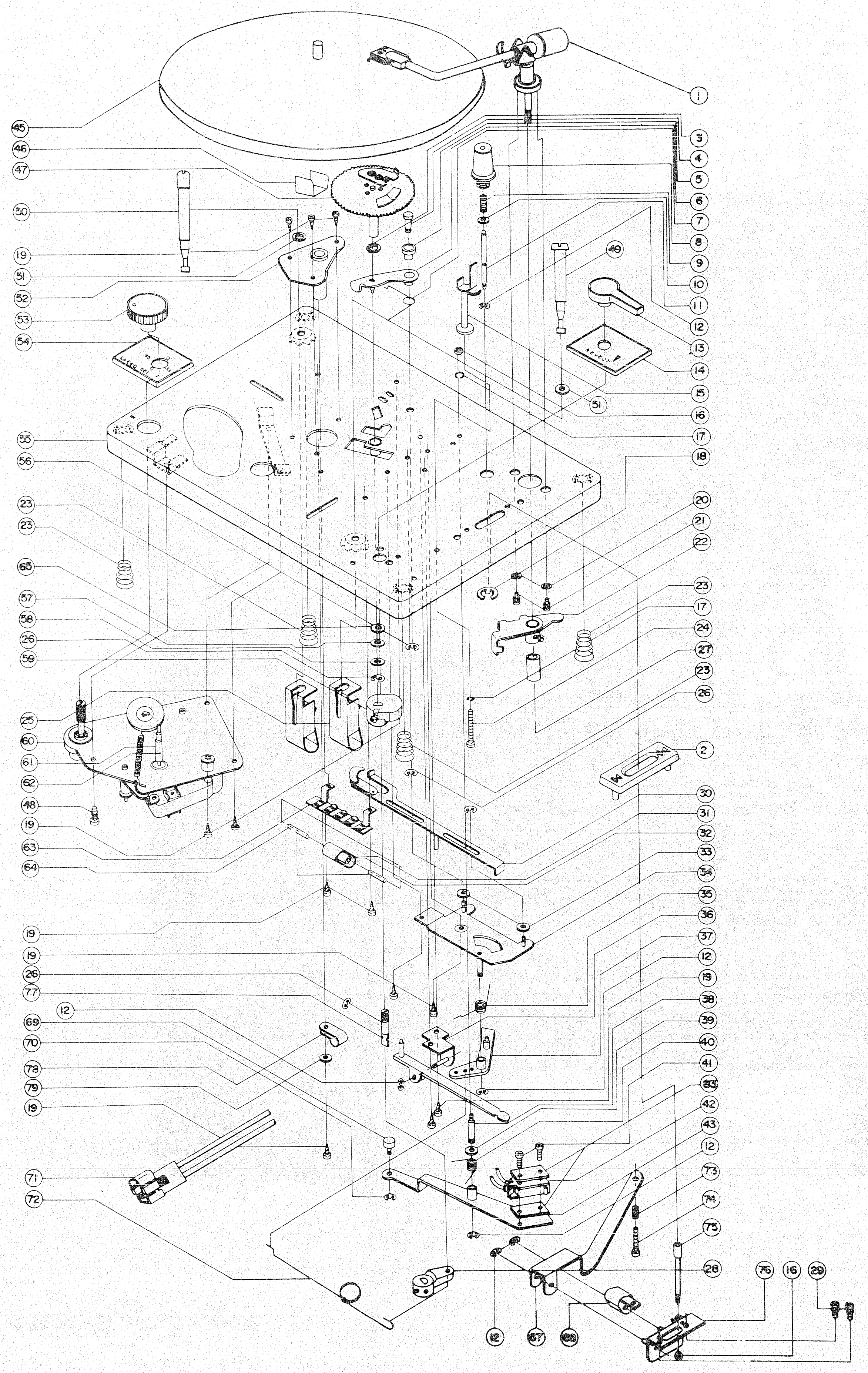

*0 7319 022 00
Assy Arm Slide Base
*2 8519 009 00
Spg Slide Base
E Ring 1.5ϕ
*2 7319 180 00
Slide Arm Power SW
*2 8519 012 00
Spg Slide Arm Pwr SW
E Ring 2ϕ
*0 5519 002 00
Assy Idler
*2 8519 017 00
Spg Idler
*2 8259 004 00
Roller Idler Base
+PTS-2 2.6x6
*0 7319 003 00
Assy Base Idler
4 2319 709 30
Switch Leaf
*2 4219 038 00
Screw Arm Rew Roller
*2 8519 018 00
Spg Rewind Roller
*0 7319 004 00
Assy Arm Rew Roller
*0 7419 083 00
Assy Psh Psh Latch
*0 5519 007 00
Assy Rewind Roller
Washer 2x4x0.2
+PMS 2x4
E Ring 1.5ϕ
E Ring 2ϕ
*2 8519 103 00
Spg Sl Plate Pause
E Ring 2ϕ
Lever RP SW
*2 8519 191 00
Spg Lever R P SW
+PTS-2 2.6x6
*0 7319 092 01
Assy Slide Pl Pause
E Ring 2ϕ
*0 5519 001 00
Assy Take up Pulley
*2 8519 013 00
Spg Take up Pulley
4 2319 700 10
Switch Power
+PTS 2 2.6x6
Assy Sup Flywheel
4 5279 703 51
Motor
*2 5219 031 00
Flywheel Capstan
*2 5649 002 01
Square Driving Belt
Washer 2x7x0.3
*2 4179 001 00
Nut
*2 4569 043 00
Washer
+PMS 2.6x5
*0 5729 002 00
Assy Bush Capstan
*2 4539 067 00
Washer

* =141 For Example *0 3119 085 00 ——→141 0 3119 085 00 0

PARTS LIST

Key No.	Part No.	Description	Q'ty
PLAYER MECHANISM PARTS (FOR MODEL GXT4540KL)			
1	850512-1	Pick-up Assembly	1
2	892736	Cueing Cover	1
3		Fiber Washer, 5x10x0.5t	1
4	890620	Gear Stop Stud	1
5	890619	Eccentricity Mounting	1
6	890618	Gear Stop Arm	1
7	890628	Gear Stop Spring	1
8	E-832750	Elevation Base	1
9	E-83280	Elevation Spring	1
10		Fiber Washer, 4x8x0.5t	1
11	892737	Elevation Axis	1
12		Washer E, M3.2	6
13	892707-1	Reject Knob	1
14	892706	Reject Cover Assembly	1
15	893306	Pick-up Rest Clip	1
16		Nut Hex. Hd., M3	3
17		Washer Spring, M3	2
18	E-890189	Washer E	1
19		Tap. Screw Pan Hd., M3x8	11
20		Fiber Washer, 3.2x10x0.5t	2
21		Screw Pan Hd. with Spring Washer, M3x6	2
22	891219	Plate Pick-up Table Assembly	1
23	890166-1	Spring	4
24		Screw Pan Hd., M3x30	1
25	890086	Plate Spring	2
26		Washer E, 4	4
27		Nylon Tube, 6φx1.5L	1
28	893039	Speed Change Lever Assembly	1
29		Screw,Pan Hd., M3x4	2
30	891635	Arm Return Assembly	1
31	890344-2	UL-tube, 12.7φx40	1
32	ECN-C4A	Capacitor, 0.047mfd, 630WV	1
33	E82540	Washer Flat	2
34	890168-1	Mini Chassis	1
35	890052	Torsion Spring	1
36	890767	Seesaw Base Assembly	1
37	890051	Reject Lever	1
38	890045	Reject Lever Axis	1
39		Washer Flat, 5x10x0.2t	1
40	892331	Torsion Spring	1
41		Screw Pan Hd., M3x14 Polycarbonate	2
42	890334	Micro Switch	1
43	890991-1	Switch Arm	1
45	702995	Turn Table Assembly	1
46	R-367160	Needle Cap	1
47	891233	R Gear Assembly	1
48		Screw Pan Hd. with Spring Washer, M4x10	1
49	890086	Transit Screw	1
50	890647	Transit Screw	1
51		Vinyl Washer, 6x12x0.5t	2
52	E-830310	Turn Table Bearing Assembly	1
53	892807-1	Speed Change Knob Assembly	1
54	892808-1	Indicator	1
55	850473	Unit Plate	1
56	E-813153	Washer E	1
57		Fiber Washer, 5x10x1t	1
58		Fiber Washer, 5x10x0.3t	1
59	890721	Switch Lever (A) Assembly	1
60	630816	Phono Motor Assembly	1
61	701044A-2	Pulley (50 Hz)	1
	701044B-2	Pulley (60 Hz)	1
62		Setting Screw, 2.6x2	1
63	893326	Terminal Plate, 2L3P (R-S17161)	1
64	890542-0	UL-tube, 1φx20L	2
67	892536	Cueing Lift	1
68	829539	Cueing Cam	1
69	890995	Eccentricity Shaft	1
70		Washer, E3	1
71	892806-1	A.C. Cord Assembly, L=540mm	1
72	890292	Torsion Spring	1
73	E-813681	Spring	1
74		Screw Pan Hd. M3x16	1
75	892399	Cue Lot Assembly	1
76	892573	Cueing Base Assembly	1
77	890065	Rotating Shaft	1
78	890593	Cord Clamper	1
79		Fiber Washer, 3.2x8x0.5t	1
83	893327	Film	2

EXPLODED VIEW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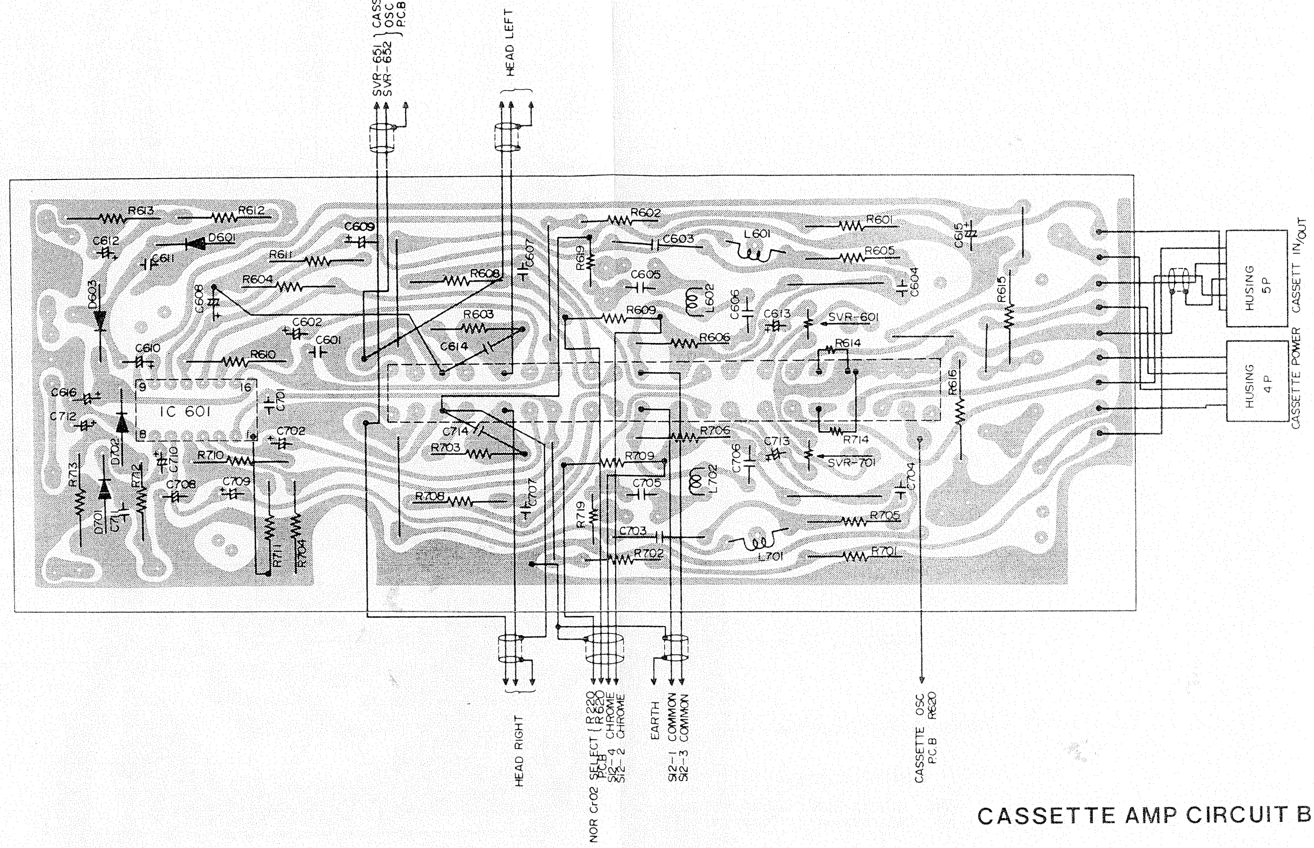
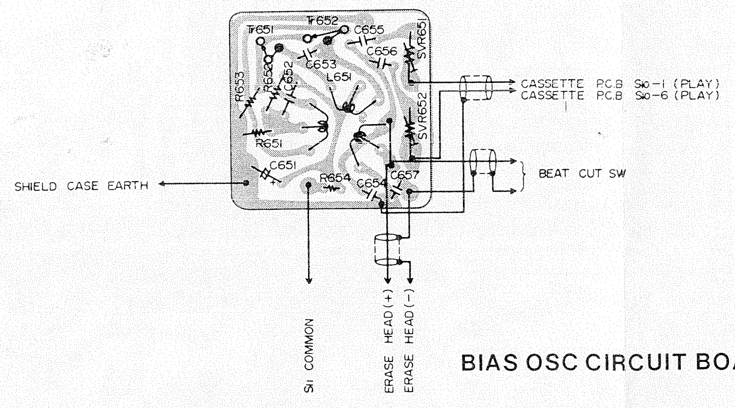
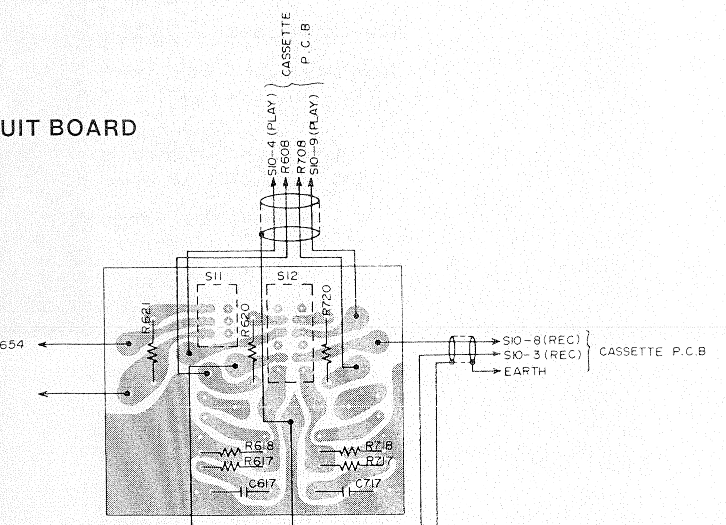
CIRCUIT BOARD DIAGRAM


SVR-651
SVR-652
CASSETTE OSC P.C.B
HEAD LEFT
R613
R612
C612
D601
C611
C609
R611
R604
C608
R608
C607
D603
C602
C601
R603
C614
C610
R610
C616
C712
IC 601
9
16
8
C701
C702
D702
R710
C710
R703
C714
R713
R712
C708
C709
D701
C711
R711
R704
R708
C707
R602
C603
L601
R601
R605
C615
R619
C605
L602
C604
R615
C606
R609
C613
SVR-601
R606
R614
R616
R706
R714
C706
C713
SVR-701
R709
C705
L702
C704
R719
R705
C703
L701
R702
R701
HUSING 5P
CASSETT IN/OUT
HUSING 4P
CASSETTE POWER
HEAD RIGHT
NOR CrO2 SELECT
R220
R620
P.C.B
S12-4 CHROME
S12-2 CHROME
EARTH
S12-1 COMMON
S12-3 COMMON
CASSETTE OSC P.C.B R620

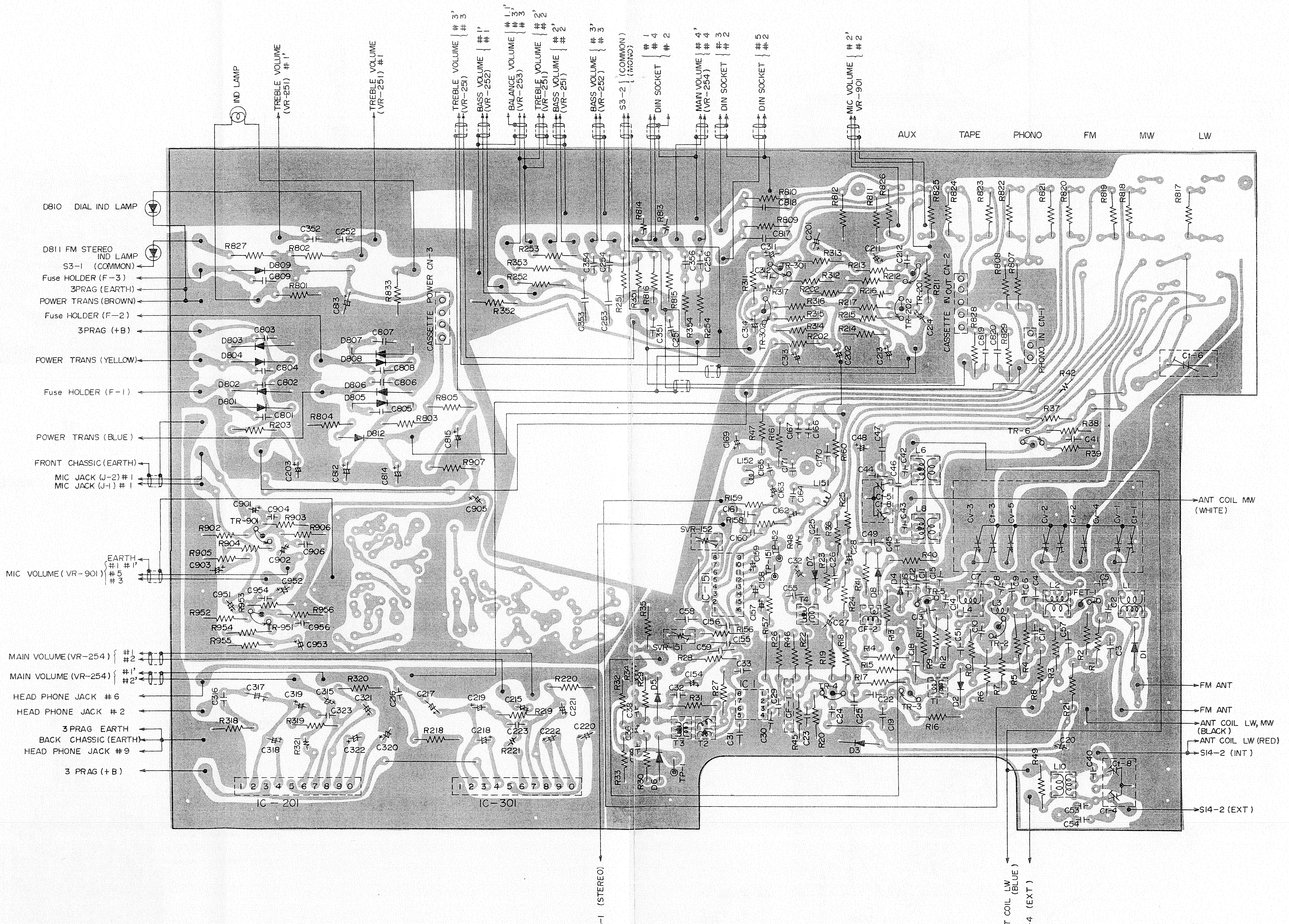
CASSETTE AMP CIRCUIT BORD


Tr651
Tr652
C655
SVR651
C656
C653
R653
R652
C652
L651
SVR652
R651
C651
R654
C654
C657
CASSETTE P.C.B S10-1 (PLAY)
CASSETTE P.C.B S10-6 (PLAY)
BEAT CUT SW
SHIELD CASE EARTH
S1 COMMON
ERASE HEAD(+)
ERASE HEAD(-)

BIAS OSC CIRCUIT BOARD

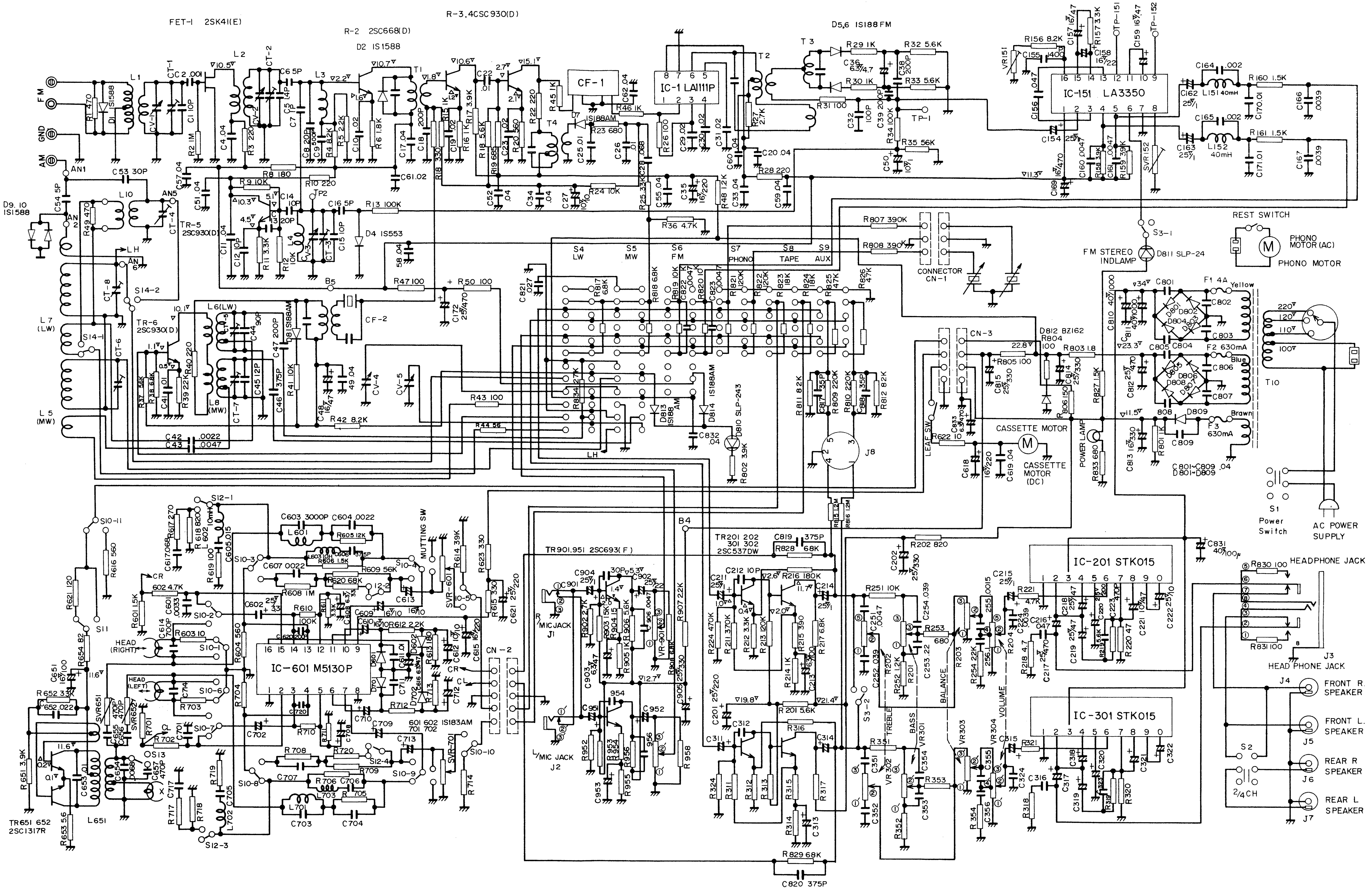

CASSETTE P.C.B
S10-4 (PLAY)
R608
R708
S10-9 (PLAY)
S11
S12
R621
R620
R720
OSC P.C.B (+B) R654
S10-11 (REC)
S10-8(REC)
S10-3(REC)
EARTH
CASSETTE P.C.B
R618
R617
C617
R718
R717
C717

TAPE SELECT CIRCUIT BOARD

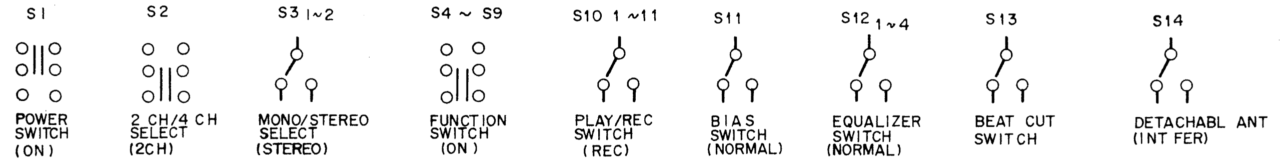

IND LAMP
TREBLE VOLUME (VR-251) #1'
TREBLE VOLUME (VR-251) #1
TREBLE VOLUME (VR-251) { #3' #3
BASS VOLUME (VR-252) { #1' #1
BALANCE VOLUME (VR-253) { #1' #3' #3
TREBLE VOLUME (VR-251) { #2' #2
BASS VOLUME (VR-251) { #2' #2
BASS VOLUME (VR-252) { #3' #3
S3-2 { (COMMON) (MONO)
DIN SOCKET { #1 #4 #2
MAIN VOLUME (VR-254) { #4' #4
DIN SOCKET { #3 #2
DIN SOCKET { #5 #2
MIC VOLUME VR-901 { #2' #2
AUX
TAPE
PHONO
FM
MW
LW
D810 DIAL IND LAMP
D811 FM STEREO IND LAMP
S3-1 (COMMON)
Fuse HOLDER (F-3)
3PRAG (EARTH)
POWER TRANS (BROWN)
Fuse HOLDER (F-2)
3PRAG (+B)
POWER TRANS (YELLOW)
Fuse HOLDER (F-1)
POWER TRANS (BLUE)
FRONT CHASSIC (EARTH)
MIC JACK (J-2) #1
MIC JACK (J-1) #1
EARTH
MIC VOLUME (VR-901) { #1 #1' #5 #3
MAIN VOLUME (VR-254) { #1 #2
MAIN VOLUME (VR-254) { #1' #2'
HEAD PHONE JACK #6
HEAD PHONE JACK #2
3PRAG EARTH
BACK CHASSIC (EARTH)
HEAD PHONE JACK #9
3 PRAG (+B)
CASSETTE POWER CN-3
CASSETTE IN OUT CN-2
PHONO IN CN-1
IC-201
IC-301
ANT COIL MW (WHITE)
FM ANT
FM ANT
ANT COIL LW, MW (BLACK)
ANT COIL LW (RED)
S14-2 (INT)
S14-2 (EXT)
S3-1 (STEREO)
ANT COIL LW (BLUE)
S1-4 (EXT)

MAIN AMP CIRCUIT BOARD

SCHEMATIC DIAGRAM


FET-1 2SK41(E)
R-2 2SC668(D)
D2 IS1588
R-3,4 CSC930(D)
D5,6 IS188FM
FM
GND
AM
AN1
L1
L2
L3
T1
T2
T3
T4
CF-1
IC-1 LA1111P
IC-151 LA3350
L151 40mH
L152 40mH
D9,10 IS1588
L10
TR-5 2SC930(D)
D4 IS553
TR-6 2SC930(D)
L6(LW)
L8(MW)
CF-2
L7 (LW)
L5 (MW)
S14-1
S14-2
LH
S4 LW
S5 MW
S6 FM
S7 PHONO
S8 TAPE
S9 AUX
CONNECTOR CN-1
REST SWITCH
PHONO MOTOR (AC)
PHONO MOTOR
FM STEREO INDLAMP
D811 SLP-24
S3-1
D812 BZ162
CN-3
F1 4A
F2 630mA
Yellow
Blue
Brawn
220V
120V
110V
100V
T10
D810 SLP-243
D814 IS188AM
J8
LEAF SW
CASSETTE MOTOR
CASSETTE MOTOR (DC)
POWER LAMP
C801~C809 .04
D801~D809
S1 Power Switch
AC POWER SUPPLY
S12-1
S12-2
S12-3
S12-4
S10-1 ~ S10-11
S11
L601
MUTTING SW
IC-601 M5130P
HEAD (RIGHT)
HEAD (LEFT)
SVR651
SVR652
SVR-601
SVR-701
OS13
L651
L701
L702
TR651 652 2SC1317R
601 602 IS183AM 701 702
CN-2
B4
B5
TR901.951 2SC693(F)
R/MIC JACK J1
L/MIC JACK J2
TR201 202 301 302 2SC537DW
IC-201 STK015
IC-301 STK015
TREBLE
BASS
BALANCE
VOLUME
VR301
VR302
VR303
VR304
S3-2
HEADPHONE JACK
HEAD PHONE JACK J3
J4 FRONT R. SPEAKER
FRONT L. SPEAKER J5
REAR R SPEAKER J6
REAR L SPEAKER J7
S2
2/4CH
R829 68K
C820 375P

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
LA 1111P	0	2.1	2.1	2.1	2.1	4.9	0	8.6								
LA 3350	11.3	2.7	4.8	8.3	8.3	10.2	0	0.4	6.6	2.1	2.1	2.4	2.1	2.1	2.1	2.9
STK 015	0	16.8	33.0	29.5	12.3	2.3	.07	1.7	8.7	0.8						
M 5130P	0	0	0.6	.01	0.6	7.2	6.0	0	10.6	6.0	7.2	0.6	.01	0.6	0	0


S1
POWER SWITCH (ON)
S2
2 CH/4 CH SELECT (2CH)
S3 1~2
MONO/STEREO SELECT (STEREO)
S4 ~ S9
FUNCTION SWITCH (ON)
S10 1~11
PLAY/REC SWITCH (REC)
S11
BIAS SWITCH (NORMAL)
S12 1~4
EQUALIZER SWITCH (NORMAL)
S13
BEAT CUT SWITCH
S14
DETACHABL ANT (INT FER)

EXPLODED VIEW

BSR

C123R2

Noted

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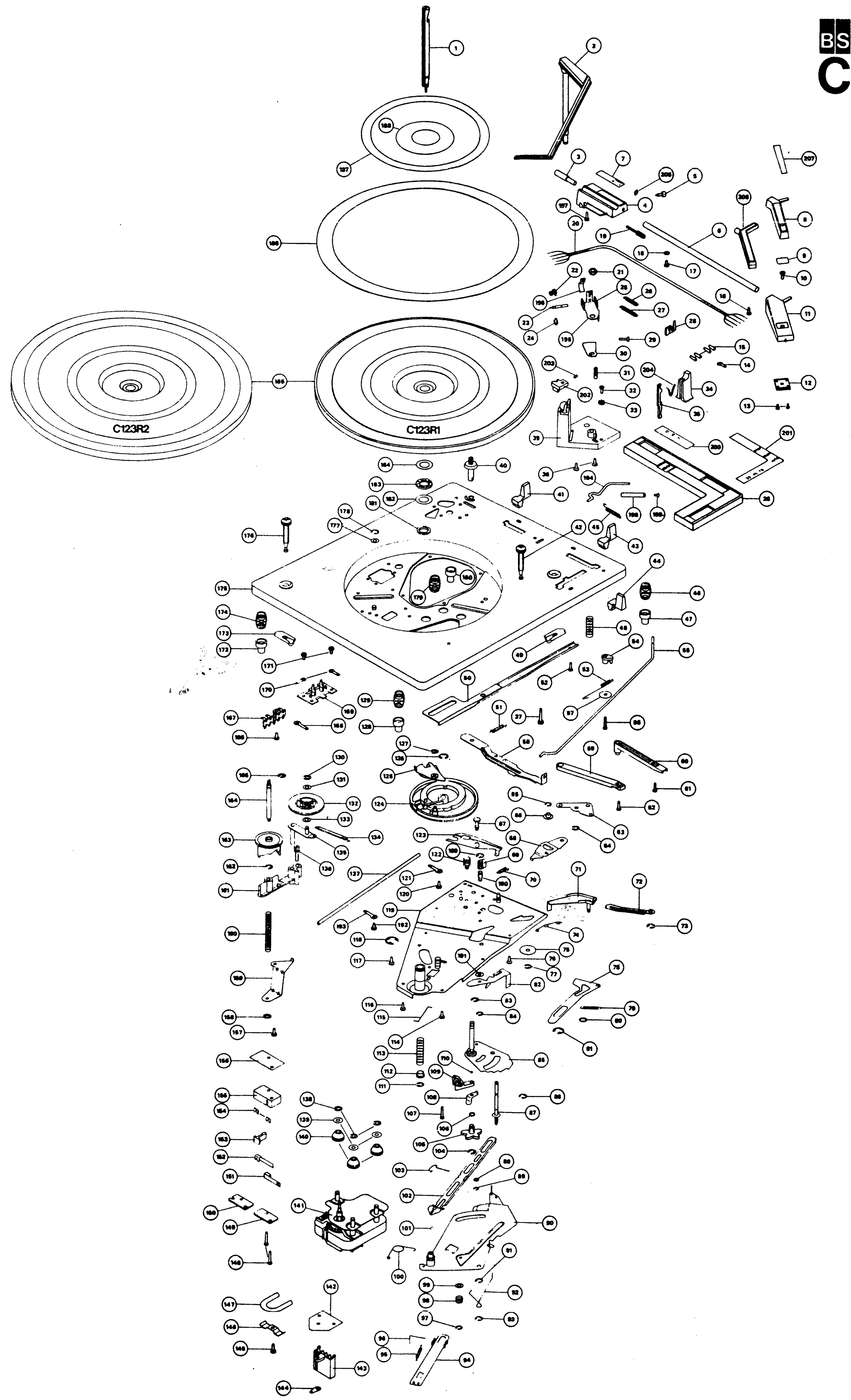

PARTS LIST

Item	Part No.	Description
1	A.107043	Centre Spindle Assembly
2	B.110406	Control Arm Assembly
3	A 108399	Tube End
4	A.111187	Pick-Up Body Sub Assembly
5	A.106652	Screw (Pick-Up Pivot)
6	B.106660	Pick-Up Tube
7	A.111156	Pick-Up Arm Body Trim
8	D.110872	Pick-Up Head
9	A.110400	Pick-Up Head Trim
10	A.106573	Screw Type 6 BA × $\frac{3}{16}$″ Rec. Countersunk Head
11	C.110397	Pick-Up Head
12	A.106775	Adaptor Plate
13	A.106506	Screw Type B No. 2 × $\frac{1}{8}$″ Rec. Pan Head
14	A.103587	Solder Tag
15	A.104306	Sleeve
16	A.109551	Screw Type A No. 4 × $\frac{1}{4}$″ Rec. Pan Head
17	A.109551	Screw Type A No. 4 × $\frac{1}{4}$″ Rec. Pan Head
18	A.106504	6 BA External Lockwasher
19	A.108344	Balance Adjusting Screw
20	A.106745	23″Quin Pick-Up Lead
21	A.105624	Pick-Up Spindle Nut
22	A.108382	Spring (Hinge Retainer)
23	A.108381	Pick-Up Pivot
24	A.106205	Circlip
25	A.108384	Hinge Bracket Riveting Assembly
26	A.103790	Pick-Up Balance Spring
27	A.105669	Pick-Up Balance Spring
28	A.111157	Balance Adjuster
29	A.106917	6 BA × $\frac{3}{8}$″ Cheese Head Screw
30	A.106654	Pick-Up Adjuster
31	A.106047	Locking Sleeve
32	A.105712	Adjusting Screw
33	A.105907	Nut
34	B.111152	Pick-Up Rest
35	A.106664	Pick-Up Clip
36	C.111150	Control Cover
37	A.108911	Screw Type BT 6-20 × $\frac{7}{8}$″ Rec. Pan Head
38	A.106510	Screw Type B No. 6 × $\frac{1}{4}$″ Rec. Pan Head
39	C.106138	Control Housing
40	B.106904	Anti-Skate Control Assembly
41	B.110360	Knob
42	A.104189	Transit Screw
43	B.110360	Knob
44	B.110360	Knob
45	A.106473	Spring
46	A,106090	Spring (Unit Mounting)
47	A.106089	Spring Cup
48	A.106813	Spring (Anti-Skate Control)
49	A.102166	Retaining Clip
50	B.108113	Speed Change Slide Assembly
51	A.105826	Spring (Switch Lever)
52	A.105267	Screw Type BT 4-24 × $\frac{5}{16}$″ Rec. Pan Head
53	A.106812	Spring (Anti-Skate)
54	B.106815	Spring Anchor
55	B.106405	Switch Link
56	A.107863	Screw Type BT 4-24 × $\frac{9}{16}$″ Rec. Pan Head
57	A.106816	Washer
58	A.106129	Switch Lever
59	B.106119	Reject Slide
60	B.106143	Selector Slide
61	A.105267	Screw Type BT 4-24 × $\frac{5}{16}$″ Rec. Pan Head
62	A.105267	Screw Type BT 4-24 × $\frac{5}{16}$″ Rec. Pan Head
63	A.106193	Reject Plate Assembly
64	A.102109	Circlip
65	A.100785	Circlip
66	A.108461	Roller
67	A.108064	Slide Pin
68	A.108033	Detent Plate
69	A.108891	Selector Pivot Spring
70	A.108075	Spring (Detent Plate)
71	A.108283	Reject Lever Assembly
72	A.106134	Reject Link
73	A.102109	Circlip
74	A.106627	Spring (Detent)
75	A.105660	Control Washer
76	A.106510	Screw Type B No. 6 × $\frac{1}{4}$″ Rec. Pan Head
77	A.100762	Circlip
78	B.105592	Cut-Off Lever
79	A.102623	Spring (Cut-Off Lever)
80	A.102251	Retainer
81	A.101526	Circlip
82	B.108036	Selector Lever
83	A.102128	Circlip
84	A.100785	Circlip
85	B.108085	Quadrant Assembly
86	A.108334	Circlip
87	A.106697	Pick-Up Raising Spindle Assembly
88	A.106966	Washer
89	A.104077	Circlip
90	B.108168	Operating Plate Assembly
91	A.102109	Circlip
92	A.108078	Spring (Selector Drive)
93	A.102109	Circlip
94	B.105597	Feed Lever Link
95	A.105827	Spring (Link Return)
96	A.106968	Spring (Feed Lever Link)
97	A.100785	Circlip
98	A.108077	Spring
99	A.103290	Washer
100	A.106980	Spring (Operating Plate)
101	A.107419	$\frac{9}{64}$″Diameter Ball Bearing
102	B.106962	Actuating Slide
103	A.105901	Spring (Actuating Slide)
104	A.100762	Circlip
105	B.108073	Toggle Wheel
106	A.108654	Spring Clip
107	A.106512	Screw Type BT 4-24 × $\frac{3}{8}$″ Rec. Pan Head
108	A.107004	Support Spring
109	A.106965	Support Bracket
110	A.107154	$\frac{3}{32}$″Diameter Ball Bearing
111	A.102109	Circlip
112	A.104861	Spacer
113	A.110985	Spring (Control Spindle)
114	A.106510	Screw Type B No. 6 × $\frac{1}{4}$″ Rec. Pan Head
115	A.104882	Retaining Clip
116	A.106510	Screw Type B No. 6 × $\frac{1}{4}$″ Rec. Pan Head
117	A.106510	Screw Type B No. 6 × $\frac{1}{4}$″ Rec. Pan Head
118	A.105678	Circlip
119	C.108483	Main Sub Plate Riveting Assembly
120	A.106510	Screw Type B No. 6 × $\frac{1}{4}$″ Rec. Pan Head
121	A.102126	Solder Tag
122	A.108083	Spring (Cut-Off Slide)
123	A.108034	Cut-Off Slide
124	A.102133	Cam Gear Riveting Assembly
125	A.106819	Actuating Pawl Assembly
126	A.102110	Circlip
127	A.100762	Circlip
128	A.106089	Spring Cup
129	A.106090	Spring (Unit Mounting)
130	A.100762	Circlip
131	A.101620	Washer
132	A.101623	Jockey Pulley Assembly
133	A.101620	Washer
134	A.105824	Spring (Jockey Pulley)
135	A.105965	Jockey Arm Riveting Assembly
136	A.105619	Adjusting Screw
137	A.108401	7″—3mm PVC Sleeving
138	A.100762	Circlip
139	A.101646	Motor Mounting Washer
140	A.102181	Rubber Mounting
141		Four Pole Motor Assy (FP20-4)
142	A.104865	Insulating Strip
143	A.103096	Amp Plug Housing
144	A.106749	4 BA Tag Lockwasher
145	A.105263	Screw Type BT 6-20 × $\frac{3}{8}$″ Rec. Pan Head
146	A.102718	Cable Clamp
147	A.106513	3″—5mm PVC Sleeving
148	A.106512	Screw Type BT 4-24 × $\frac{3}{8}$″ Rec. Pan Head
149	A.108182	Switch Cover
150	A.108183	Switch Cover
151	A.200444	Contact (Domed)
152	A.200445	Contact (Flat)
153	A.200450	Switch Dolly
154	A.200446	Solder Tag
155	B.108181	Switch Body
156	A.106015	Retaining Strip
157	A.106510	Screw Type B No. 6 × $\frac{1}{4}$″ Rec. Pan Head
158	A.102128	Circlip
159	A.106034	Speed Change Bracket
160	A.105831	Spring (Raising Spindle)
161	B.106021	Speed Change Arm
162	A.102109	Circlip
163	B.110364	Raising Cam
164	A.108589	Raising Spindle
165	A.102128	Circlip
166	A.106510	Screw Type B No. 6 × $\frac{1}{4}$″ Rec. Pan Head
167.	A.106206	Tag Mounting Strip
168	A.102126	Solder Tag
169	A.102616	Phono Socket
170	A.102126	Solder Tag
171	A.106510	Screw Type B No. 6 × $\frac{1}{4}$″ Rec. Pan Head
172	A.106089	Spring Cup
173	A.102166	Retaining Clip
174	A.106090	Spring (Unit Mounting)
175	B.109328	Mainplate Sub Assembly
176	A.104189	Transit Screw
177	A.102595	Washer
178	A.102109	Circlip
179	A.106090	Spring (Unit Mounting)
180	A.106089	Spring Cup
181	A.102058	Damping Washer
182	A.101506	Thrust Washer
183	A.101649	Ballrace
184	A.101506	Thrust Washer
185	D.111148	Turntable Moulding (C123R1) or D111649 Turntable Moulding (C123R2)
186	A.111155	Turntable Trim
187	A.111154	Turntable Trim
188	A.111153	Turntable Centre Disc
189	A.102109	Circlip
190	A.108894	Selector Pivot
191	A.108893	Washer
192	A.106510	Screw Type B No. 6 × $\frac{1}{4}$″ Rec. Pan Head
193	A.102126	Solder Tag
194	A.106474	Raising Arm
195	A.108833	Hinge Bracket Riveting Assembly (includes item 196)
196		Restrictor Spring
197	A.108343	Screw Type BT 4-24 × $\frac{3}{8}$″ Rec. Pan Head
198	A.110381	Knob
199	A.110408	Cap
200	A.110374	Trim
201	A.110373	Trim
202	A.106665	Raising Pad
203	A.106505	Grub Screw 6 BA × $\frac{1}{4}$″ Pointed
204	A.106173	Pick-Up Rest Spring
205	A.108348	Circlip
206		'Custom Design' Head
207	A 110864	Pick-Up Head Trim

SANYO ELECTRIC TRADING CO., LTD.
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WM-1309 Dec. 1975 CP 1500 Printed in Japan